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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

~~DIS~~ PC 029801

Date: September 9, 1976

Subject: Review of toxicology data submitted by Velsicol Chemical Corporation (dated August 20, 1976) in connection with Banvel Herbicide (EPA Reg. No. 876-25)

From: Edwin R. Budd/Toxicology Branch

OPP OFFICIAL RECORD  
HEALTH EFFECTS DIVISION  
SCIENTIFIC DATA REVIEWS  
EPA SERIES 361

To: Robert Taylor/PM #25

The following two studies were submitted and reviewed.

- 1) Results of 28-Day Pilot Feeding Study with Dicamba Technical (Tables I and II)--Albino Mice. Industrial BIO-TEST Laboratories, Inc.; March, 1976.

The submitted data consisted solely of two tables. Table I presented mean body weight data and Table II presented mean food consumption data. No additional description or explanation of any kind accompanied the two tables. The submitted data, as presented, does not fulfill any requirements for reregistration or other registration actions.

- 2) Eye Irritation Study in Rabbits. International Research and Development Corporation, January 9, 1976, Study Number 163-381. Test Material: Banvel Herbicide (presumably EPA Reg. No. 876-25).

Procedure: 0.1 ml of test material instilled in right eye of each of 8 white rabbits. At 5 minutes after instillation, the eyes of 5 rabbits were washed (Group I). At 24 hours after instillation, the eyes of 3 rabbits were washed (Group II). Eyes were scored at 7, 24, 48, 72 hours and at 7, 14, and 21 days.

Results: Group I--an extremely irritant and corrosive substance  
Toxicity Category I

Group II--an extremely irritant and corrosive substance  
Toxicity Category I

Conclusions: The submitted eye irritation study is acceptable. Banvel Herbicide (EPA Reg. No. 876-25) falls into Toxicity Category I on the basis of this eye irritation study (Federal Register, July 3, 1975, p. 28279).

Conclusions:

- 1) The product label must bear on the front panel the signal word "Danger". The current signal word is "Caution", which is now inappropriate. Similarly, on the side panel, the precautionary paragraph (under "Hazard to humans and domestic animals") shall be immediately preceded by "Danger". The word "Caution" is to be deleted.

- 2) The precautionary paragraph must include the following in addition to statements on other routes of exposure.  
"Corrosive, causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling." Also add the following. "First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse."
- 3) The use of this product must be classified for restricted use (Federal Register, July 3, 1976, pp. 28283-4). Therefore, appropriate label statements reflecting restricted use classification must be added to the product label.
- 4) Note that the registrant has proposed on his reregistration forms the classification "general use". This proposed classification is denied.

*Edwin R. Budd* 9/9/76

Edwin R. Budd  
Toxicology Branch

*E for OEP 9/10/76*

VELSICOL™

Banve 1®

HERBICIDE

E.P.A. Reg. No. 876-25-AA

E.P.A. Est. No.

Net Contents:  
Gallons

ACTIVE INGREDIENTS:

Dimethylamine Salt of dicamba (3,6-dichloro-o-anisic acid) .....	49.0%
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Dimethylamine Salt of Related acids .....	7.9%
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INERT INGREDIENTS: .....	43.1%
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TOTAL	100.0%
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Contains: 40.6% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon.

CAUTION

*Replace with  
"Danger"*

KEEP OUT OF REACH OF CHILDREN.

See Side Panel for Additional Precautionary Statements.

Velsicol Chemical Corporation  
341 East Ohio Street  
Chicago, Illinois 60611

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals.

Caution. Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling. In case of contact, wash skin with soap and water; for eyes flush with water for 15 minutes and get medical attention.

Environmental Hazard

Keep out of lakes, streams or ponds. Do not apply when weather conditions favor drift from target area.

IMPORTANT

Do not apply (except as recommended) on or near desirable trees or plants or in locations where chemicals may be washed or mixed in contact with their roots.

Prevent drift of product, when applied by ground or air, to desirable plants, particularly beans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sweet corn, tomatoes, and other desirable crops (coarse sprays are less likely to drift). Velsicol Chemical Co. potato recommends the use of ACCUTROL<sup>TM</sup> system as an excellent method of drift reduction. For further information on the ACCUTROL<sup>TM</sup> system, refer to Velsicol Bulletin A-258.

Do not apply by airplane when sensitive crops are nearby. Consult your State or local authorities for possible aerial application or other application restrictions. When using ground equipment, use sufficient water to give good coverage.

Do not contaminate irrigation ditches or water used for domestic purposes. To avoid injury to desirable plants, equipment used for BAPVET<sup>TM</sup> Herbicide should be thoroughly cleaned before use to handle or apply any other agricultural chemicals.

Observe all precautions and limitations on labels of all products used in tank-mixtures.

FEEDING RESTRICTIONS

Corn: Do not graze treated areas. Do not harvest or feed immature corn forage to cattle prior to ensilage stage (maturity).

Small Grains: Do not graze treated areas or harvest for dairy feed prior to crop maturity. For spring seeded barley do not graze or harvest for dairy feed; for other livestock do not graze or harvest for feed until 30 days after application.

Sorghum: Do not graze or feed forage or silage prior to maturity (milk stage) prior to harvest.

Pasture Grass and Grass Seed Pasture: Do not graze treated areas in treated fields within 30 days of application. For seedling grasses, mow and harvest for dry forage. See the attached section of the attached instruction book. Do not use feed from treated grass for feed or feed purposes.

For other crops, do not graze treated areas or feed to livestock or other animals.

All uses of BAPVET<sup>TM</sup> Herbicide should be avoided for 3 months after harvest below a plowing and harrow. If this period is observed, such as in cover crops, which will be plowed and/or do not follow it with the planting of sensitive crops.

Side Panel (Continued)

FOLLOW THE DIRECTIONS CAREFULLY

BANVEL<sup>®</sup> Herbicide is used for the control of many weeds in Field Corn, Small Grains, Sorghum, Non-Cropland, Pasture Grass and for other crops.

For use, storage and disposal directions read pamphlet No. 07151 attached.

For additional copies, write to the manufacturer.

NOTICE: Because Velsicol Chemical Corporation has no control over storage, handling, and conditions of use, which are of critical importance, Velsicol Chemical Corporation makes no representation or warranty, either express or implied, for results or residues greater than any tolerance which may be established by appropriate governmental agencies, due to misuse, improper handling or storage of this material. Nor does Velsicol Chemical Corporation assume any responsibility for injury to persons, crops, animals, soil or property arising out of misuse, improper handling or storage of this material.

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<b>Chemical:</b>	<b>Dicamba</b>
<b>PC Code:</b>	<b>029801</b>
<b>HED File Code</b>	<b>13000 Tox Reviews</b>
<b>Memo Date:</b>	<b>09/09/76</b>
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**HED Records Reference Center**  
**09/23/2002**